

CLAIMS:

1. A packaging device comprising two film feed rollers rotatably arranged in parallel and a predetermined interval apart from each other, and
5 comprising:

two film pull-out rollers which rotate to pull out films from said respective film feed rollers and are arranged in parallel with circumferential surfaces being in contact with each other via the pulled films in a normal state; and

10 a driving part rotating said film pull-out rollers,

wherein an object for disposal is received between said film feed rollers, said driving part rotates said film pull-out rollers, and the object for disposal passes between said film pull-out rollers, thereby allowing the object for disposal to be sealingly packed between the films, and

15 wherein at least one of said film pull-out rollers includes a circumferential surface that is elastically deformed by the object for disposal when the object for disposal passes between said film pull-out rollers, whereby the object for disposal is allowed to be sealingly packed while the films are into close contact with a surface of the object for disposal.

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2. The packaging device according to claim 1, wherein, when the object for disposal passes between said film pull-out rollers, the films come into close contact with each other in respective side edges positioned on both sides of the object for disposal and in positions ahead of and behind the
25 object for disposal in a film moving direction.

3. The packaging device according to claim 1 or claim 2, wherein said driving parts are provided in correspondence to said film pull-out rollers respectively, and said film pull-out rollers are rotary driven together by said respective driving parts.

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4. The packaging device according to claim 1, wherein at least said one film pull-out roller including the circumferential surface that elastically deforms in accordance with the passage of the object for disposal includes sponge or rubber supported by a rotary shaft.

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5. The packaging device according to any one of claims 1 to 4, wherein, in the normal state, said film pull-out rollers are biased by an elastic member in approaching directions, and when a load with a predetermined magnitude or larger works in a direction so as to make said film pull-out rollers apart from each other, at least one of said film pull-out rollers becomes apart from the other.

6. The packaging device according to claim 1, wherein the film rolled around at least one of said film feed rollers is an adhesive film having an adhesive layer formed in at least side edges thereof.

7. The packaging device according to claim 1 or claim 6, wherein the films rolled around said respective film feed rollers are plastic films that come into close contact with each other by an electrostatic action when the films pass between said film pull-out rollers.

8. The packaging device according to claim 1, wherein said one film pull-out roller includes heater parts which are provided on circumferential surfaces of both longitudinal end portions thereof to heat-seal the films passing between said film pull-out rollers.

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9. The packaging device according to claim 8, wherein said film pull-out roller further includes a linear heater part which is formed along the longitudinal direction of said film pull-out roller and through which the heater parts formed on the circumferential surfaces of the both longitudinal
10 end portions communicate with each other.

10. The packaging device according to claim 1, comprising a detecting means for detecting whether or not the object for disposal is positioned between the pulled films in a space between said film feed rollers and said
15 film pull-out rollers,

wherein, when detecting the object for disposal, said detecting means outputs a driving signal to said driving part rotating said film pull-out rollers.

11. The packaging device according to any one of claims 1 to 10, being
20 disposed on an upper side of a trash storage part,

wherein a trash as the object for disposal passes between said film pull-out rollers, thereby allowing the trash to be sealingly packed between the films and to be stored in the trash storage part.

25 12. A trash box comprising a trash storage part storing a trash,
wherein the packaging device according to any one of claims 1 to 10

is disposed on an upper side of said trash storage part, whereby the trash as an object for disposal which is put in from an inlet provided in the packaging device is allowed to be sealingly packed between the films and to be stored in the trash storage part.

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13. The trash box according to claim 12, wherein a width of said trash storage part along a longitudinal direction of the film feed rollers is substantially equal to a width of the films fed from the film feed rollers.

10 14. The trash box according to claim 12 or claim 13, wherein said packaging device and said trash storage part are provided in plurality.

15 15. The trash box according to any one of claims 12 to 14, wherein said packaging device has a plurality of inlets, and said film feed rollers and said film pull-out rollers are provided in correspondence to each of the inlets.